



Computational Methods in Geophysical Electromagnetics (Siam Mathematics in Industry)

Eldad Haber

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This monograph provides a framework for students and practitioners who are working on the solution of electromagnetic imaging in geophysics. Bridging the gap between theory and practical applied material (for example, inverse and forward problems), it provides a simple explanation of finite volume discretization, basic concepts in solving inverse problems through optimization, a summary of applied electromagnetics methods, and MATLAB code for efficient computation.

Audience: The book will appeal to students interested in computational science, data fitting, and applications to electromagnetics and to practitioners in the field.

Contents: Preface; Chapter 1: Maxwell s Equations and Their Geophysical Applications; Chapter 2: The Finite Volume Method in 1D and Its Application to Maxwell s Equations; Chapter 3: Finite Volume Discretization in 3D; Chapter 4: Discretization of Maxwell s Equations; Chapter 5: Sensitivity Calculation; Chapter 6: Data Fitting, Regularization, and Inversion; Chapter 7: Large Scale Problems and Problems with Many Sources; Chapter 8: Inversion in Practice; Bibliography; Index.

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